Corrigendum to: "On soft preopen sets and soft pre separation axioms, Gazi University Journal of Science, 27(4) (2014), 1077-1083."

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The authors of [1] concluded in Example 1 that τ is a soft topology over $X = \{x_1, x_2, x_3, x_4\}$ with respect to the set of attributes $E = \{e_1, e_2, e_3\}$. In fact, their conclusion is incorrect. For instance, the soft sets (F_{13}, E) and (F_{14}, E) are in the collection τ but $(H, E) = (F_{13}, E) \, \widetilde{\cup} \, (F_{14}, E)$ where $(H, E) = \{(e_1, \{x_1\}), (e_2, \{x_2, x_3, x_4\}), (e_3, \{x_1, x_2\})\}$ not belongs to the same collection τ. In order to achieve the goal of [1, Example 1], let $X = \{x_1, x_2, x_3, x_4, x_5\}$ be a universe and $E = \{e\}$ be the singleton attributes set. Define the collection $\tau = \{\widetilde{\emptyset}, \widetilde{X}, (F_1, E), (F_2, E), (F_3, E)\}$, where (F_1, E), (F_2, E) and (F_3, E) are soft sets over X defined as follows:

$$(F_1, E) = \{(e, \{x_1\})\},$$

$$(F_2, E) = \{(e, \{x_3, x_4\})\},$$

$$(F_3, E) = \{(e, \{x_1, x_3, x_4\})\}.$$

Then τ is a soft topology. Let (H, E) be a soft set over X defined by $(H, E) = \{(e, \{x_3\})\}$, then (H, E) is a soft pre-open set but not soft open.

Conflict of Interests

The authors declare that there is no conflict of interests regarding the publication of this paper.

References

[1] Metin Akdag and Alkan Ozkan, on soft preopen sets and soft pre separation axioms, Gazi University Journal of Science, 27(4) (2014), 1077-1083.

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